

Notice of Allowability

Application No.

09/664,531

Examiner

Li B. Zhen

Applicant(s)

WILSON ET AL.

Art Unit

2194

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/16/2005.
2. ☒ The allowed claim(s) is/are 1-18,22-55,57 and 58 now renumbered as claims 1-54.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


WILLIAM THOMSON
SUPERVISORY PATENT EXAMINER

DETAILED ACTION

1. Claims 1 - 18, 22 - 55, 57 and 58 are pending in the current application.

REASONS FOR ALLOWANCE

2. Claims 1 - 18, 22 - 55, 57 and 58 are allowed.

3. The following is an examiner's statement of reasons for allowance:

The prior art does not expressly teach or render obvious the invention as recited in independent claims 1, 54, 55, 57 and 58.

The prior art (Yadav) discloses providing a virtual device container [proactive device object (PDO); left col., p. 3] to virtually extend the functionality of a network device [proactive services are Java objects with well-defined interfaces that provide new functionality; left col., 4th paragraph, p. 2] on a network for supporting a plurality of functional application modules [an agent (an encapsulation of code and state; right col., 1st paragraph, p. 2] residing in a server [proactive console can also be used to created new mobile agents; right col., 2nd paragraph, p. 2] on the network, receiving a function request sent from one of the functional application modules [right col., 1st section, p. 4], the function request corresponding to the network device [right col., 1st section, p. 4], selecting one of a plurality of functional component modules in response to the function request [right col., 1st section, p. 4], each of the functional component modules corresponding to a respective one of the functional application modules [Proactive Service, right col., p. 2], the selected functional component module

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corresponding to the functional application module which sent the function request [right col., 1st section, p. 4]; and executing the selected functional component module according to the function request [right col., 1st section, p. 4] wherein each functional component module communicates with the corresponding functional application module through a first interface [Proactive Services, p. 2] and communicates with the network device through a second interface [right col., Proactive Services, p. 2]. However, Yadav does not disclose function components modules communicating with corresponding functional application modules through a dedicated software bus being managed by a software bus control module and each of the function component modules and each of the functional application modules containing a software bus connector module which supports communication over the dedicated software bus.

Nor was a reference uncovered that would have provided a basis of evidence for asserting a motivation that one of ordinary skill level in the art at the time of the invention was made would have integrated or modified the network device system with function components modules communicating with corresponding functional application modules through a dedicated software bus being managed by a software bus control module and each of the function component modules and each of the functional application modules containing a software bus connector module which supports communication over the dedicated software bus as recited in the context of the independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should

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preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

CONTACT INFORMATION


4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Li B. Zhen whose telephone number is (571) 272-3768. The examiner can normally be reached on Mon - Fri, 8:30am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Thomson can be reached on 571-272-3718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

lbz

Li B. Zhen
Examiner
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WILLIAM THOMSON
SUPERVISORY PATENT EXAMINER